

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P595116

Luminaire Tested: **IST-PA1C-727-U-T4W**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595116
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-727-U-T4W
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5539 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

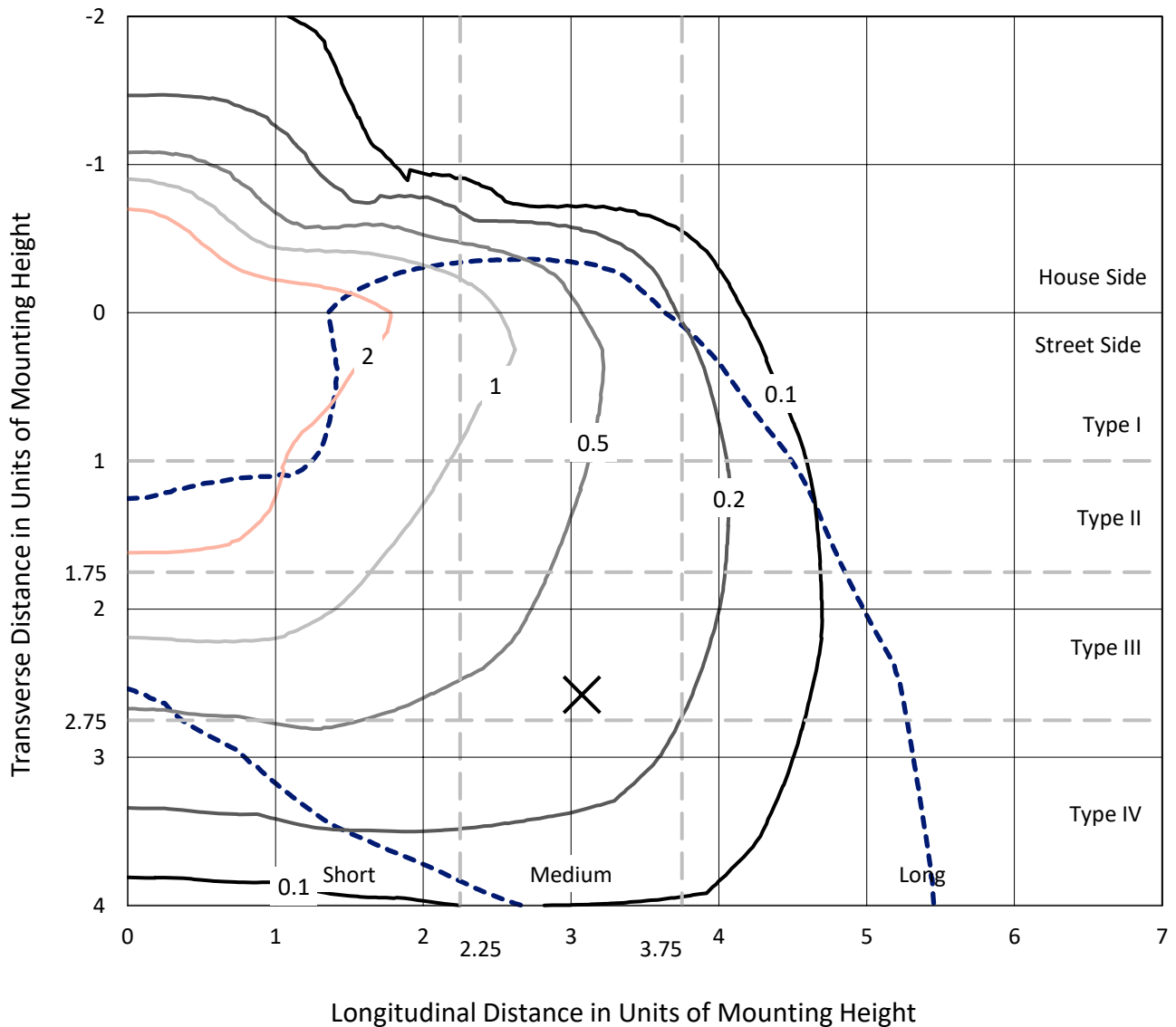
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

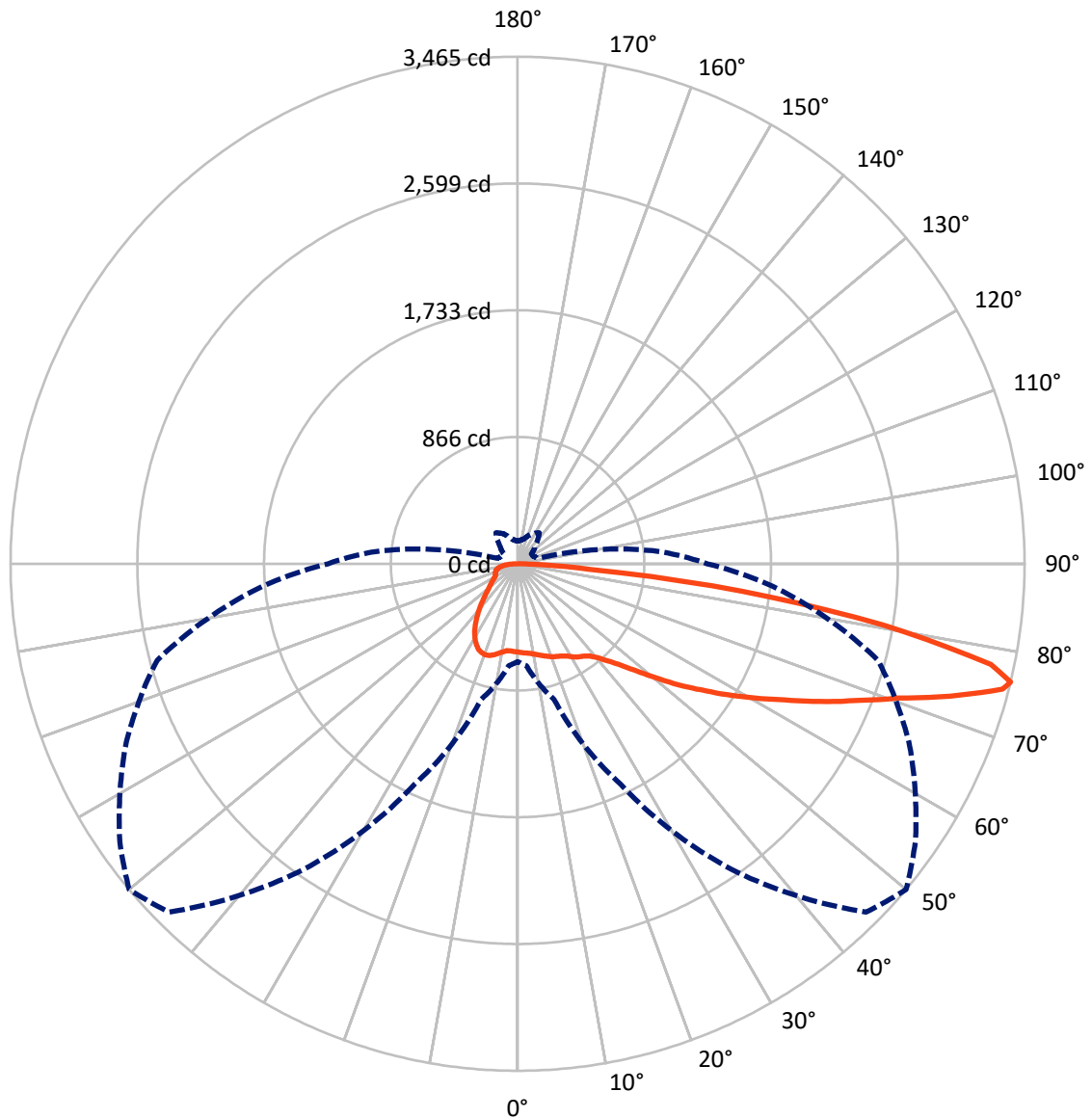
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 76-Deg Vertical

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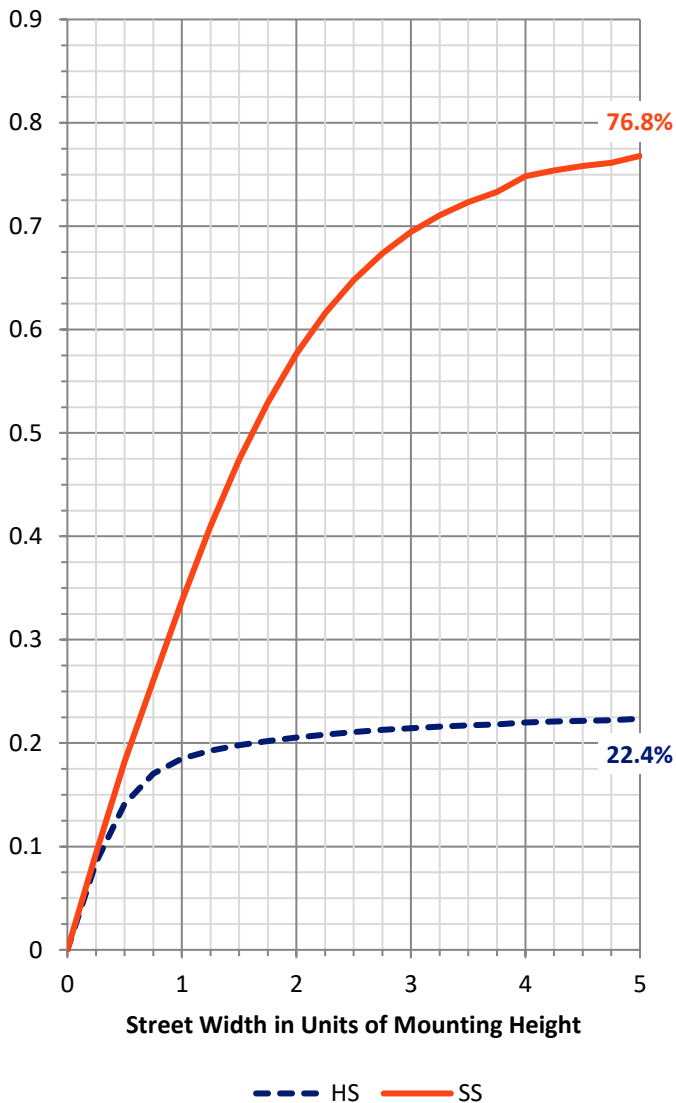
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1267.1	0.0	1267.1
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	4271.9	0.0	4271.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	5539.0	0.0	5539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.6	1.1
10°-20°	184.3	3.3
20°-30°	311.3	5.6
30°-40°	426.8	7.7
40°-50°	628.5	11.3
50°-60°	988.7	17.9
60°-70°	1423.2	25.7
70°-80°	1294.1	23.4
80°-90°	223.4	4.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5539.0	100.0
0°-180°	5539.0	100.0

Coefficient of Utilization

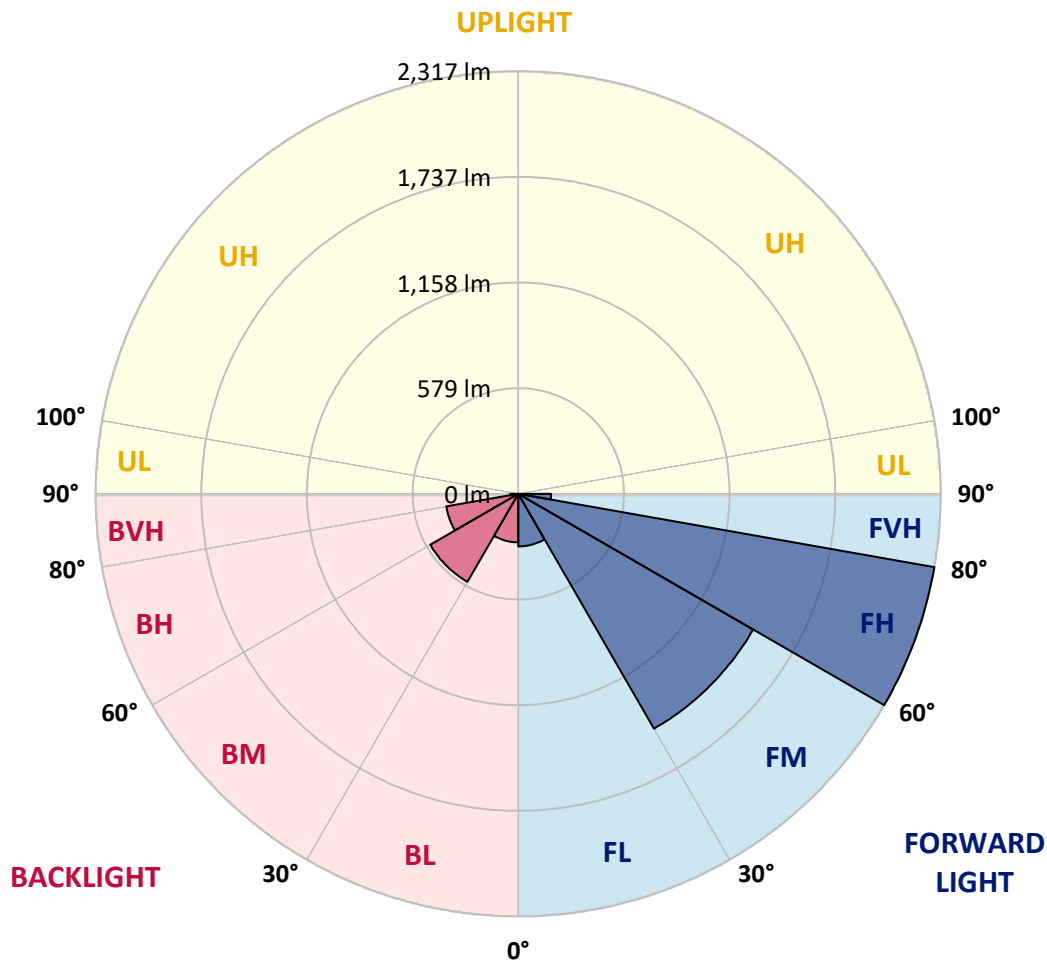


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	288.3	5.2			
FM (30°-60°)	1487.1	26.8			
FH (60°-80°)	2316.7	41.8			G2/5000
FVH (80°-90°)	179.8	3.2			G2/225
BL (0°-30°)	266.0	4.8	B1/500		
BM (30°-60°)	556.9	10.1	B1/1000		
BH (60°-80°)	400.6	7.2	B1/500		G1/500
BVH (80°-90°)	43.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7
2.5°	617.3	617.3	618.7	615.9	615.9	609.2	609.2	607.8	605.1	603.7	601.0
5°	640.4	640.4	636.3	629.5	625.4	617.3	613.2	610.5	605.1	598.3	591.5
7.5°	664.8	662.1	659.4	648.5	640.4	625.4	618.7	614.6	603.7	594.2	590.2
10°	690.6	686.5	679.7	666.1	653.9	636.3	628.2	622.7	610.5	602.4	592.9
12.5°	705.5	705.5	697.4	681.1	664.8	643.1	639.0	632.2	620.0	609.2	599.7
15°	720.4	721.8	713.6	694.6	675.6	659.4	652.6	648.5	634.9	618.7	606.5
17.5°	735.3	734.0	725.8	704.1	683.8	668.9	664.8	659.4	645.8	630.9	618.7
20°	746.2	743.5	740.8	713.6	693.3	683.8	678.4	674.3	660.7	644.4	628.2
22.5°	748.9	751.6	748.9	716.3	700.1	689.2	687.9	683.8	672.9	658.0	641.7
25°	750.3	751.6	755.7	724.5	709.6	701.4	698.7	696.0	687.9	675.6	653.9
27.5°	757.0	758.4	758.4	729.9	721.8	716.3	713.6	713.6	709.6	694.6	672.9
30°	758.4	759.8	762.5	743.5	740.8	736.7	738.1	736.7	729.9	713.6	689.2
32.5°	767.9	769.3	776.0	751.6	754.3	758.4	759.8	758.4	744.8	731.3	710.9
35°	799.1	797.7	803.2	772.0	769.3	770.6	774.7	773.3	767.9	755.7	742.1
37.5°	899.5	899.5	884.6	819.5	799.1	796.4	799.1	805.9	807.2	796.4	785.5
40°	1075.9	1066.4	1058.2	917.1	852.0	835.7	843.9	847.9	858.8	858.8	858.8
42.5°	1257.7	1259.0	1256.3	1069.1	947.0	906.3	907.6	917.1	940.2	944.3	956.5
45°	1419.1	1428.6	1449.0	1245.5	1086.7	995.8	986.3	995.8	1028.4	1055.5	1086.7
47.5°	1545.3	1534.4	1579.2	1430.0	1246.8	1117.9	1093.5	1096.2	1141.0	1184.4	1233.3
50°	1653.8	1656.5	1676.9	1618.6	1449.0	1256.3	1223.8	1218.3	1282.1	1328.2	1411.0
52.5°	1775.9	1767.8	1797.6	1784.1	1645.7	1425.9	1374.4	1358.1	1427.3	1492.4	1581.9
55°	1834.3	1842.4	1903.5	1937.4	1831.6	1577.9	1520.9	1526.3	1599.6	1668.8	1793.6
57.5°	1937.4	1945.5	2016.1	2086.6	1997.1	1739.3	1689.1	1689.1	1771.9	1849.2	2041.9
60°	2078.5	2079.8	2151.8	2273.9	2142.3	1895.3	1862.8	1861.4	1951.0	2040.5	2334.9
62.5°	2140.9	2157.2	2264.4	2423.1	2332.2	2086.6	2048.6	2059.5	2139.5	2244.0	2661.9
65°	2056.8	2092.1	2315.9	2523.5	2501.8	2286.1	2271.1	2286.1	2334.9	2447.5	3007.8
67.5°	1778.7	1826.1	2220.9	2591.3	2637.5	2516.7	2495.0	2492.3	2523.5	2649.7	3226.3
70°	1634.8	1663.3	1970.0	2617.1	2746.0	2750.1	2750.1	2732.4	2728.4	2820.6	3246.6
72.5°	1345.9	1375.7	1662.0	2473.3	2849.1	3062.1	3093.3	3028.2	2927.8	2908.8	2906.1
75°	959.2	980.9	1227.8	1945.5	2717.5	3361.9	3424.3	3298.2	3018.7	2716.1	2119.2
76°	668.9	700.1	959.2	1662.0	2552.0	3367.4	3465.1	3318.5	2957.6	2550.6	1746.1
77.5°	339.2	350.0	554.9	1116.6	2135.5	3212.7	3307.7	3143.5	2691.7	2060.9	1108.4
80°	128.9	133.0	198.1	407.0	1172.2	2495.0	2531.6	2310.5	1781.4	880.5	398.9
82.5°	67.8	70.5	111.3	200.8	481.6	1371.6	1548.0	1288.9	698.7	264.6	116.7
85°	33.9	36.6	65.1	122.1	238.8	428.7	496.6	469.4	232.0	100.4	43.4
87.5°	13.6	16.3	32.6	54.3	96.3	84.1	93.6	120.7	74.6	47.5	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7	603.7
2.5°	601.0	599.7	601.0	599.7	601.0	601.0	602.4	599.7	599.7	602.4	598.3
5°	591.5	590.2	591.5	594.2	595.6	598.3	603.7	602.4	605.1	607.8	609.2
7.5°	587.5	586.1	590.2	591.5	595.6	601.0	609.2	614.6	617.3	622.7	620.0
10°	591.5	591.5	597.0	601.0	607.8	614.6	621.4	626.8	633.6	637.7	636.3
12.5°	598.3	597.0	606.5	611.9	621.4	628.2	633.6	636.3	641.7	647.2	645.8
15°	605.1	606.5	620.0	630.9	641.7	644.4	645.8	643.1	645.8	648.5	648.5
17.5°	618.7	620.0	634.9	647.2	656.7	653.9	647.2	640.4	640.4	641.7	643.1
20°	629.5	632.2	649.9	660.7	666.1	655.3	644.4	636.3	632.2	633.6	632.2
22.5°	641.7	647.2	664.8	670.2	662.1	648.5	634.9	624.1	624.1	625.4	625.4
25°	656.7	659.4	671.6	668.9	653.9	633.6	622.7	618.7	617.3	618.7	620.0
27.5°	670.2	671.6	678.4	659.4	630.9	609.2	605.1	606.5	607.8	609.2	610.5
30°	687.9	690.6	683.8	645.8	602.4	578.0	578.0	586.1	588.8	592.9	591.5
32.5°	709.6	712.3	691.9	628.2	565.8	541.3	542.7	554.9	563.0	565.8	567.1
35°	746.2	740.8	697.4	603.7	526.4	496.6	497.9	512.8	523.7	527.8	525.0
37.5°	791.0	789.6	705.5	572.5	477.6	450.4	451.8	458.6	469.4	470.8	472.1
40°	865.6	854.7	719.1	531.8	428.7	402.9	400.2	404.3	402.9	405.7	407.0
42.5°	972.8	944.3	736.7	485.7	385.3	358.2	355.5	348.7	340.5	332.4	328.3
45°	1098.9	1054.2	758.4	438.2	340.5	316.1	309.3	301.2	284.9	267.3	261.8
47.5°	1261.7	1176.3	782.8	390.7	298.5	279.5	274.1	261.8	242.9	222.5	218.4
50°	1428.6	1320.1	807.2	351.4	264.6	253.7	248.3	236.1	211.6	192.7	188.6
52.5°	1622.6	1462.5	833.0	316.1	234.7	234.7	230.6	211.6	188.6	170.9	168.2
55°	1846.5	1609.1	873.7	282.2	213.0	218.4	213.0	194.0	172.3	160.1	158.7
57.5°	2113.8	1794.9	925.3	245.6	194.0	198.1	198.1	184.5	169.6	161.4	160.1
60°	2382.4	1983.5	957.8	218.4	179.1	183.2	191.3	184.5	175.0	170.9	169.6
62.5°	2640.2	2176.2	902.2	195.4	164.2	176.4	196.7	198.1	188.6	189.9	189.9
65°	2832.8	2322.7	729.9	175.0	154.7	180.4	213.0	214.4	198.1	194.0	192.7
67.5°	2899.3	2363.4	491.1	161.4	149.2	183.2	232.0	226.6	198.1	189.9	185.9
70°	2773.1	2214.2	318.8	149.2	141.1	180.4	246.9	233.4	196.7	184.5	179.1
72.5°	2325.4	1888.5	213.0	138.4	133.0	177.7	256.4	233.4	192.7	175.0	169.6
75°	1614.5	1290.2	158.7	124.8	120.7	173.7	259.1	229.3	183.2	164.2	160.1
76°	1295.7	967.3	143.8	119.4	115.3	170.9	257.8	225.2	176.4	158.7	154.7
77.5°	818.1	556.3	120.7	109.9	107.2	165.5	252.3	215.7	166.9	149.2	145.2
80°	286.3	203.5	92.3	89.5	90.9	153.3	237.4	196.7	147.9	131.6	126.2
82.5°	114.0	93.6	69.2	69.2	71.9	131.6	214.4	173.7	128.9	108.5	100.4
85°	44.8	40.7	48.8	48.8	51.6	107.2	179.1	135.7	88.2	67.8	65.1
87.5°	13.6	19.0	21.7	23.1	24.4	54.3	101.8	59.7	39.3	28.5	23.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)